

Fig. 1

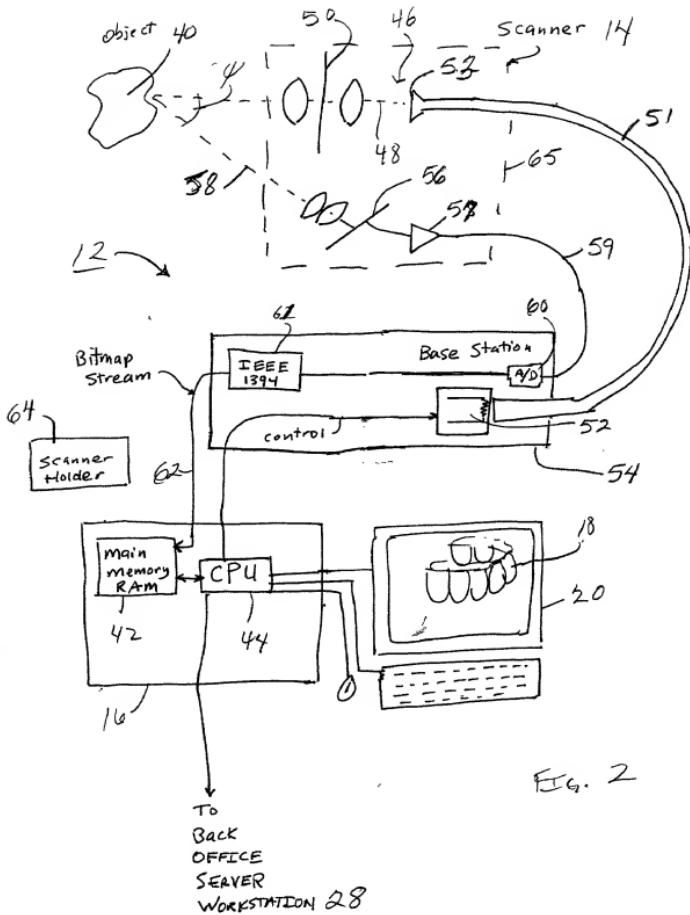


FIG. 2

Fig. 3

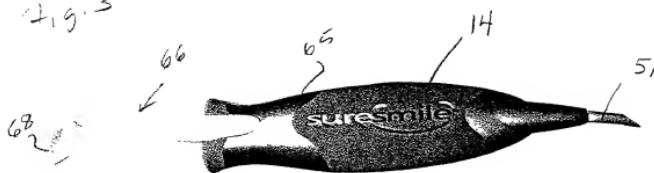
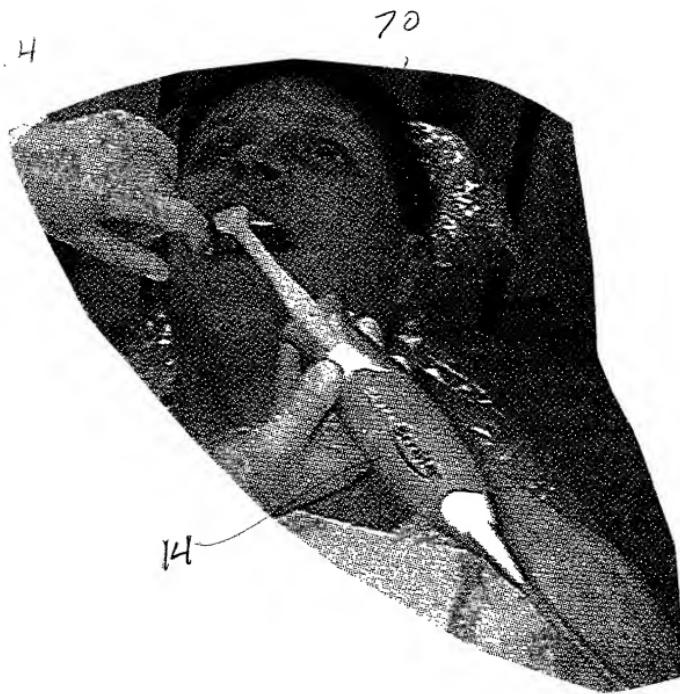


Fig. 4



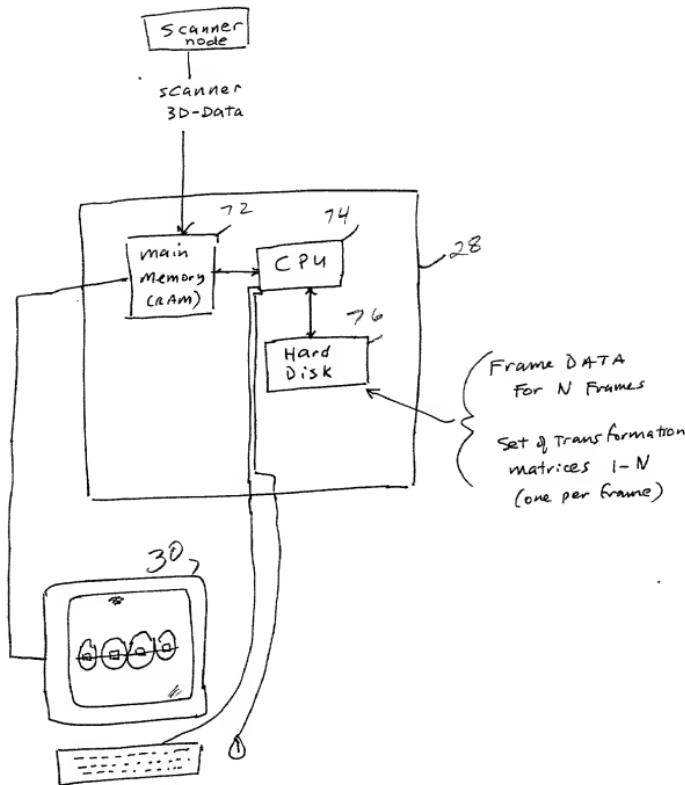


Fig. 5

3-Dimensional IMAGE CAPTURE (per frame)

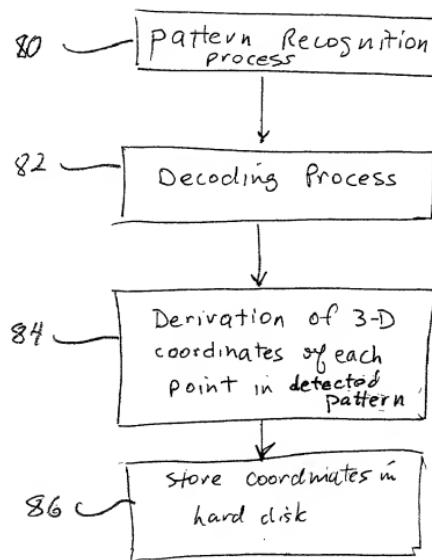


Fig. 6

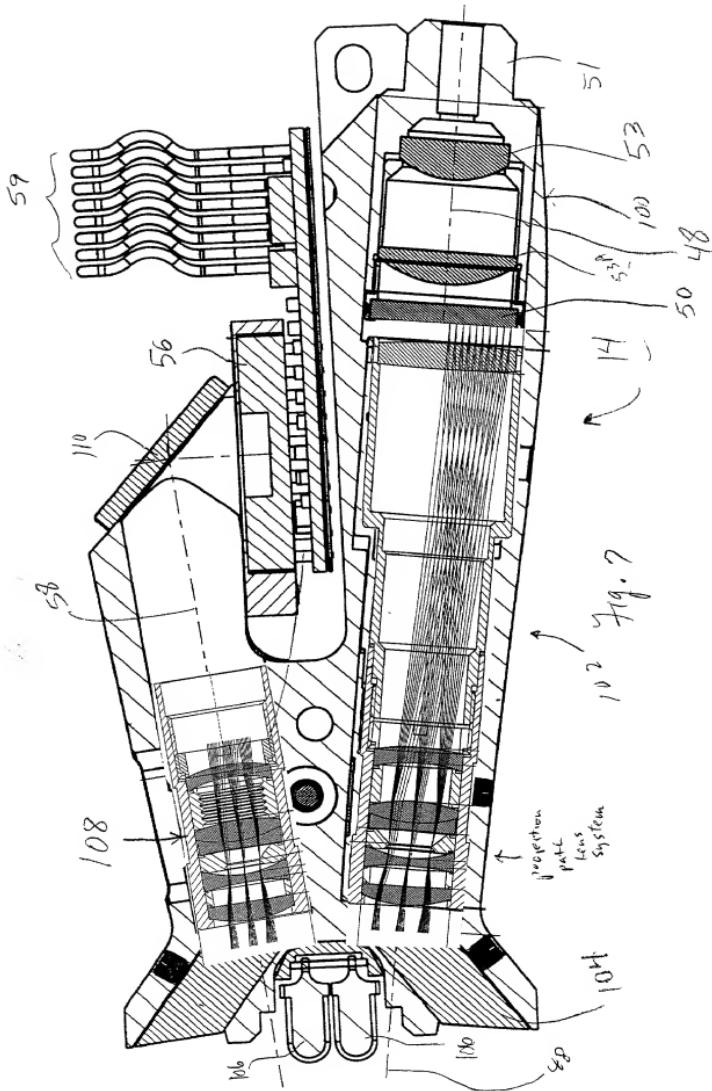
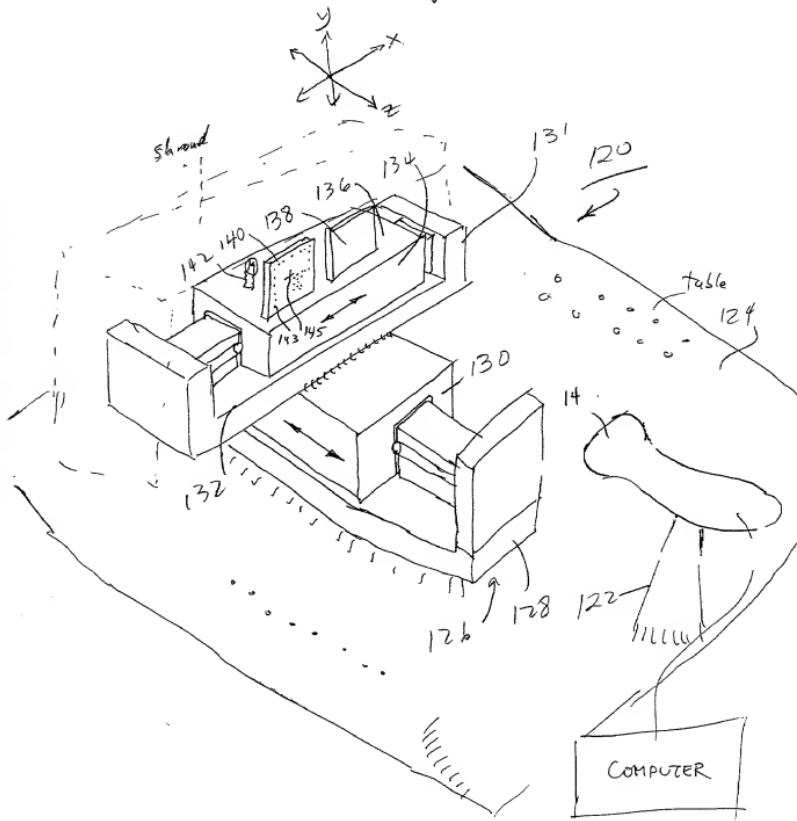


Fig. 8



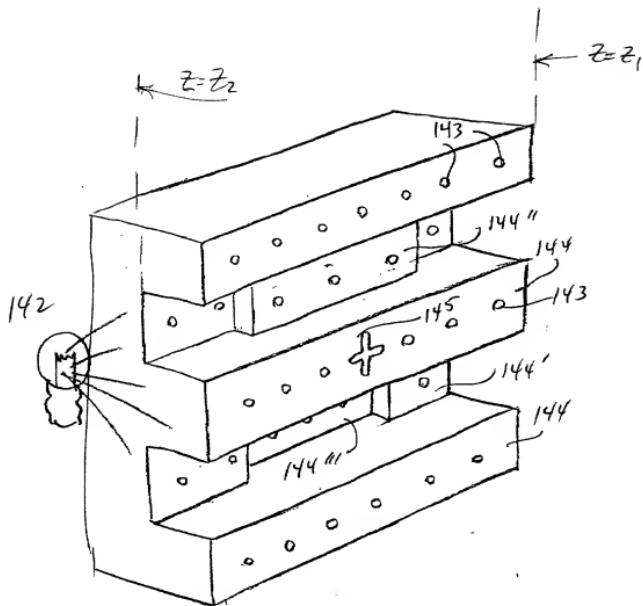


Fig. 8A

Fig. 9

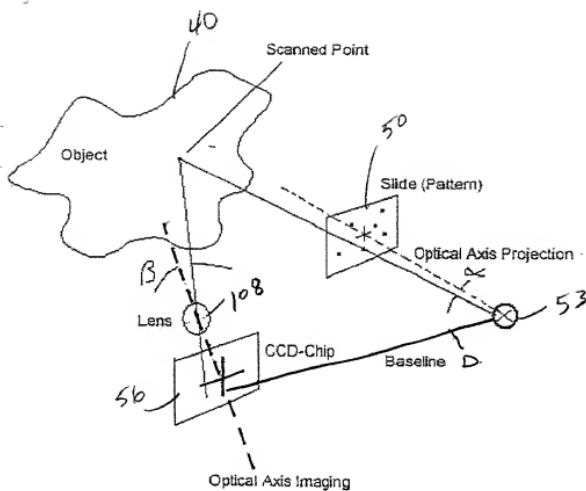


Fig. 9B

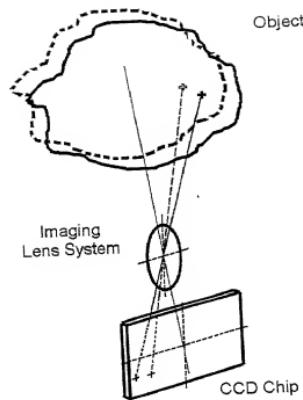
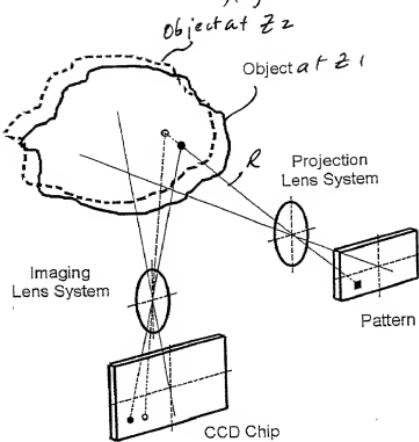


Fig. 9A



00985007-0000-0000-0000-000000000000

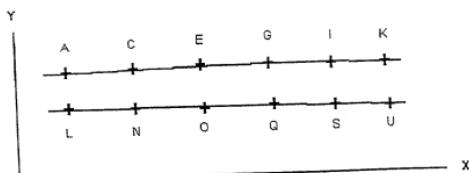
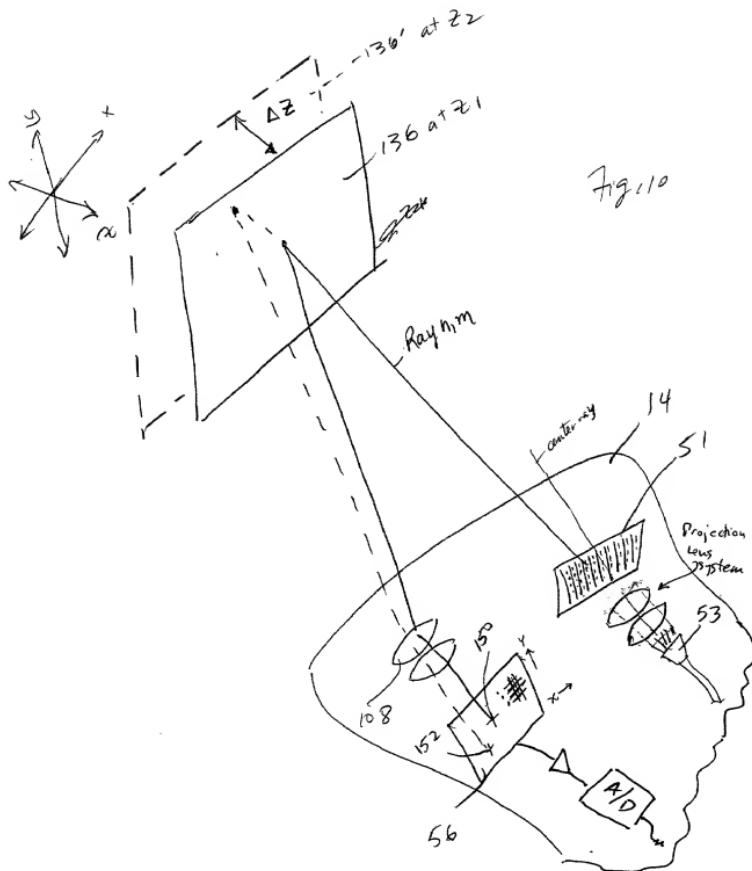
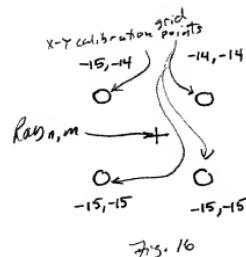
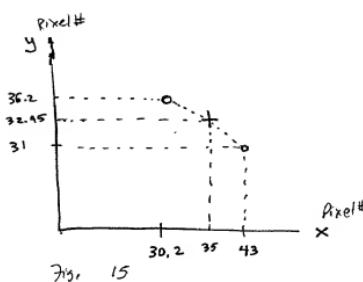
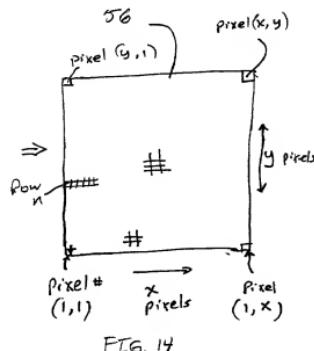
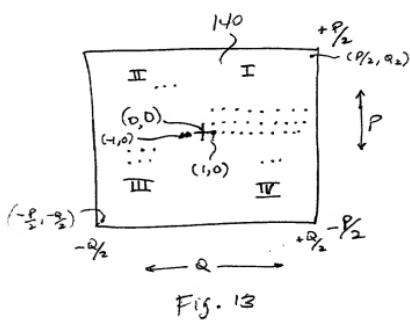
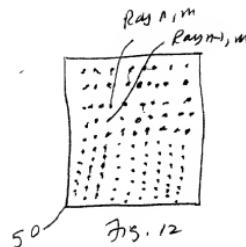
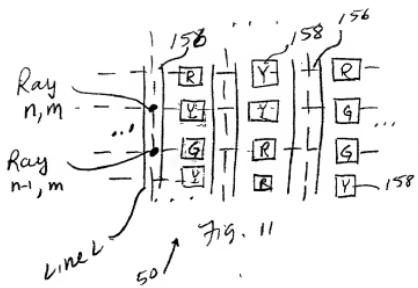


Fig. 9C

Pixel coordinates for portions of the pattern assigned to a certain Z-level





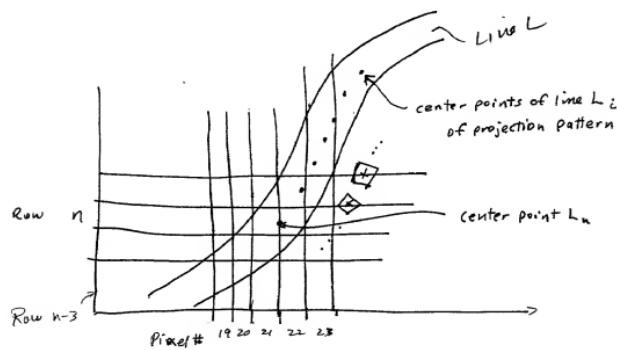
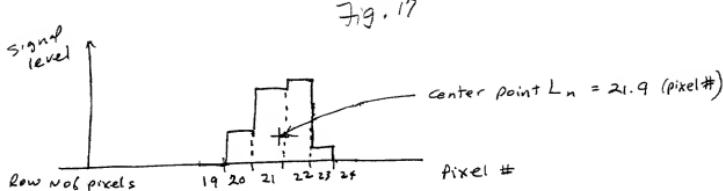


Fig. 18

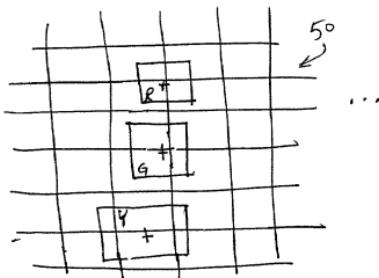
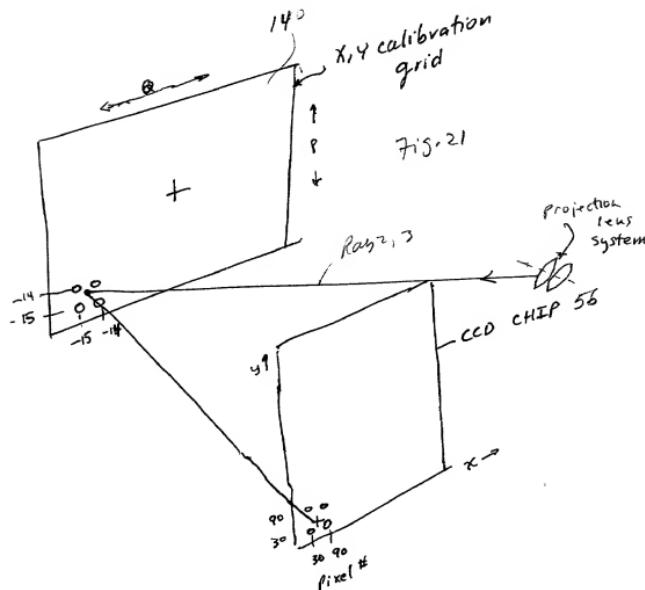
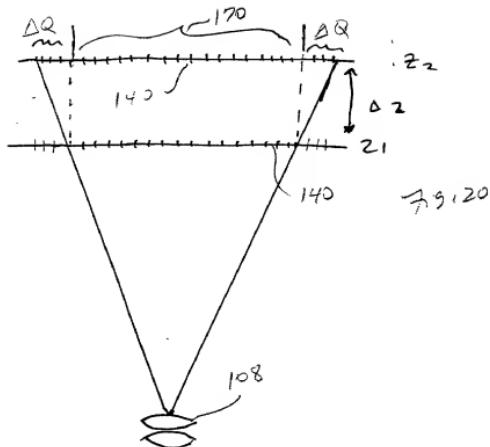


Fig. 19



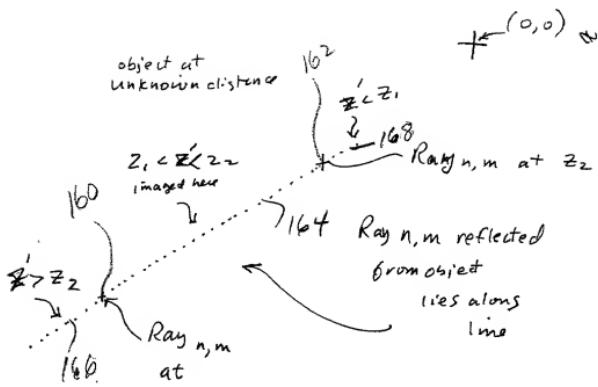
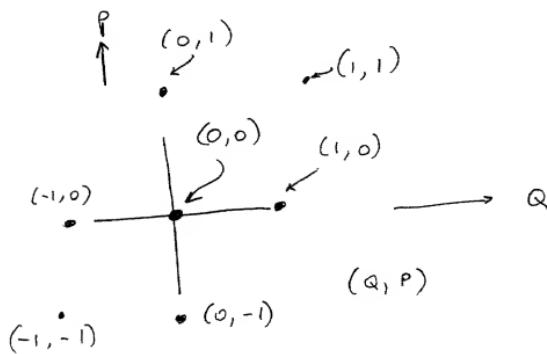


Fig. 22

Fig. 23



CCD x, CCD y = pixel #, in subpixel resolution

Calibration Table #1

Table #3

Quadrant I		Quadrant II		Quadrant III		Quadrant IV	
α_{11}	α_{12}	α_{21}	α_{22}	α_{31}	α_{32}	α_{41}	α_{42}
α_{11}	α_{12}	α_{21}	α_{22}	α_{31}	α_{32}	α_{41}	α_{42}
α_{11}	α_{12}	α_{21}	α_{22}	α_{31}	α_{32}	α_{41}	α_{42}
α_{11}	α_{12}	α_{21}	α_{22}	α_{31}	α_{32}	α_{41}	α_{42}

Quadrant II

		Row		Row + P_2	
		$(-1, 0)$	$(-3, 0)$	$(-4, 0)$	\dots
		$(9_2, 0)$	$(9_2, -9_2, 0)$	$(-1,)$	\dots
$\begin{pmatrix} CC \\ CD \end{pmatrix}_X$	$\begin{pmatrix} CC \\ CD \end{pmatrix}_Y$	$(-3, 0)$	$(-4, 0)$	$(-2, 1)$	\dots
	$\begin{pmatrix} CC \\ CD \end{pmatrix}_Y$	$(-1,)$	$(-3, 1)$	$(-2, 1)$	\dots
Z_1	$\begin{pmatrix} CC \\ CD \end{pmatrix}_X$	$(-1,)$	$(-3, 1)$	$(-2, 1)$	\dots
	$\begin{pmatrix} CC \\ CD \end{pmatrix}_Y$	$(-1,)$	$(-3, 1)$	$(-2, 1)$	\dots
Z_2	$\begin{pmatrix} CC \\ CD \end{pmatrix}_X$	$(-1,)$	$(-3, 1)$	$(-2, 1)$	\dots
	$\begin{pmatrix} CC \\ CD \end{pmatrix}_Y$	$(-1,)$	$(-3, 1)$	$(-2, 1)$	\dots

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Medieval

79, 25

$CCD_x, CCD_y = \text{Pixel width, in subpixel resolution}$

Fig. 26

(After)

Pattern Calibration Table #1

Row	Pattern Line 1			Pattern Line 2			Pattern Line N		
	Row 1	Row 2	Row 3	Row 4	Row 1	Row 2	Row 3	Row 4	Row N
CCD_x	1.0	1.1	1.5	2.1	...	2.71	2.95	3.02	3.71
mm									
CCD_y	10.2	20.4	32.8	44.5	...	11.5	21.6	36.2	44
mm									
Distance									
CCD_x	3.9	4.5	6.8	12.2	...	34.0	41.1	43.0	46
mm									
CCD_y	12.1	21.5	30.4	46.3	...	13.2	21.8	31.0	47.2
mm									
dist.									
Z_1									
Z_2									

After

rectangular cross-section

Fig. 28

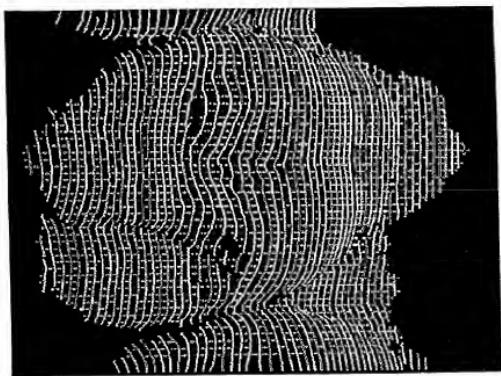


Fig.

Fig. 29

17

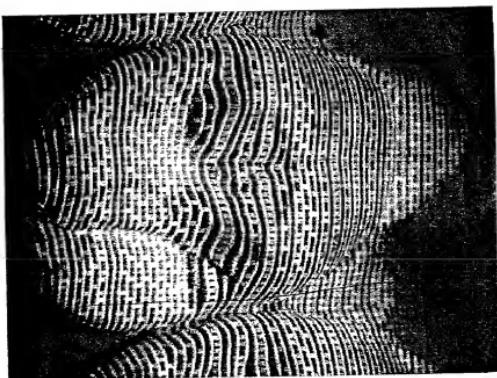




FIG. 29



FIG.
30



FIG. 31



FIG. 32

FIGURE 200000



FIG. 33

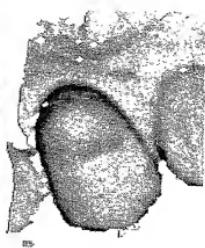


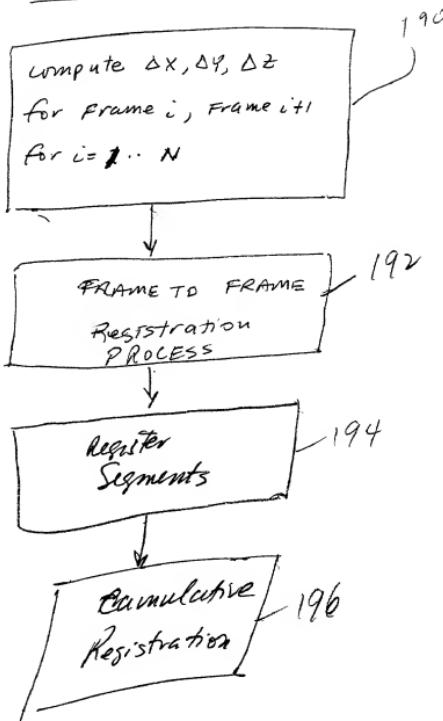
FIG. 34

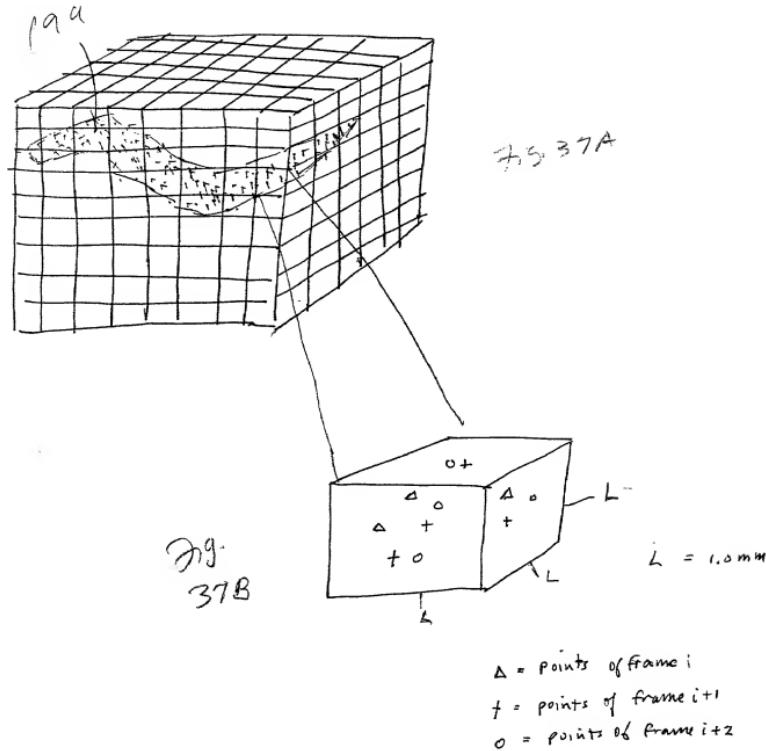


FIG.
35

Fig. 36

Registration





TOOTH# 208 mesial

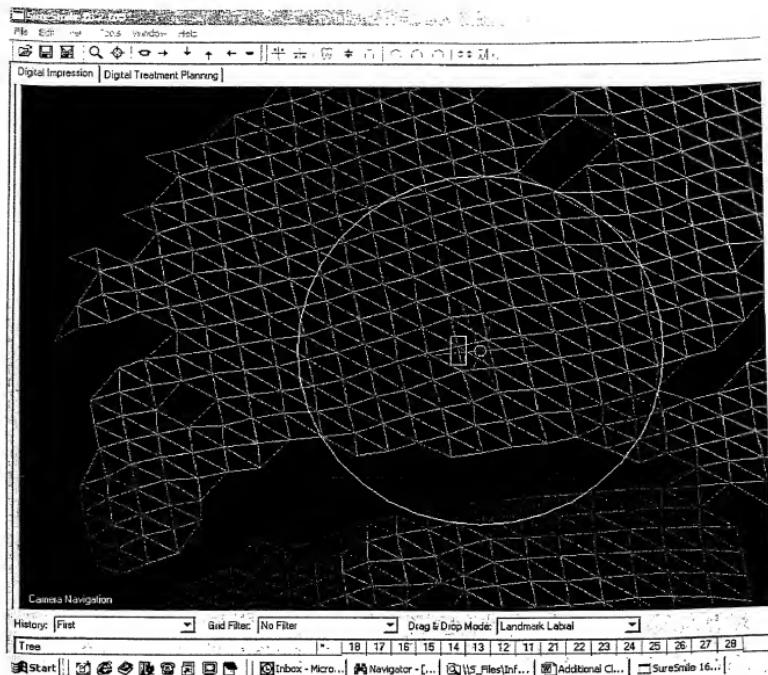


Figure 37c

f

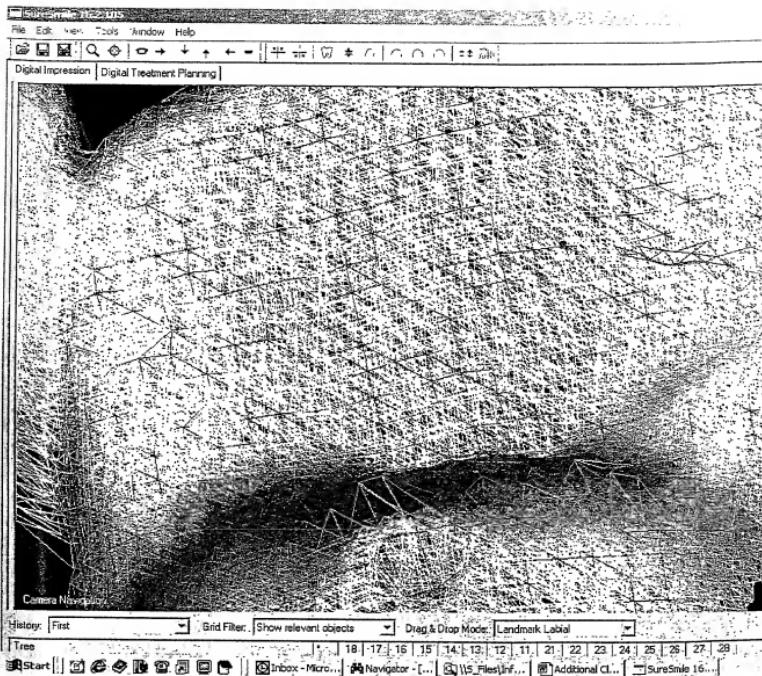


Fig-32 D

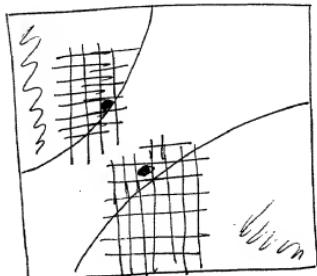


Fig. 38A

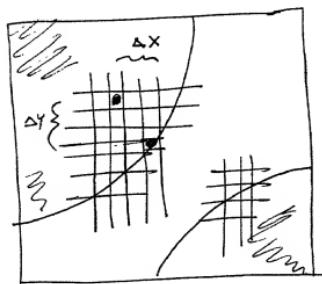
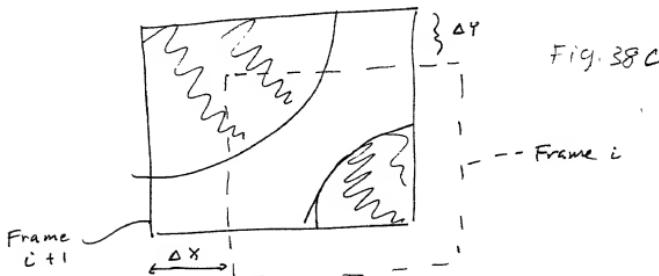


Fig. 38B

Frame $i+1$



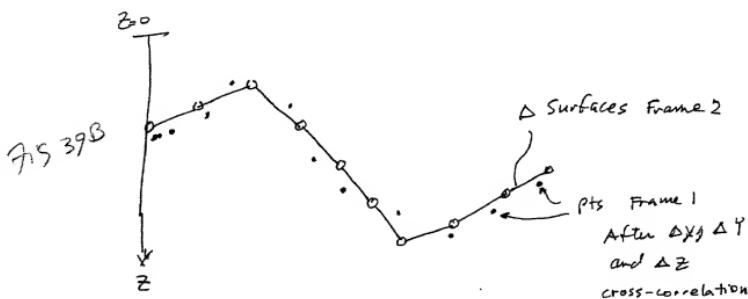
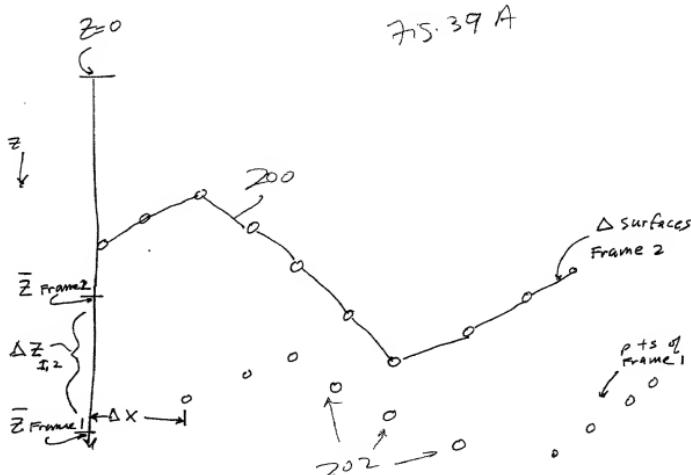


Fig. 40A

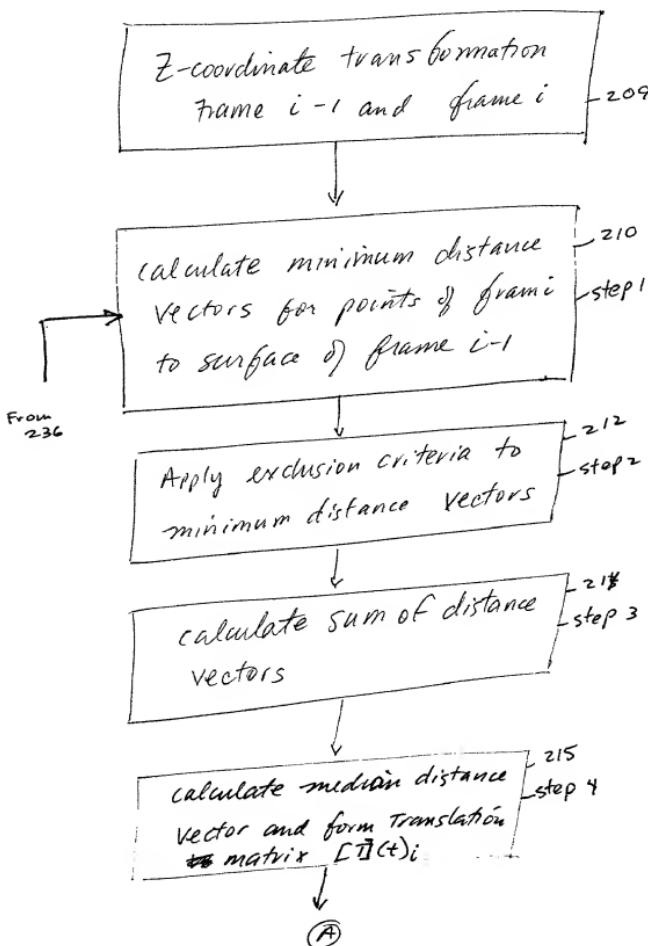
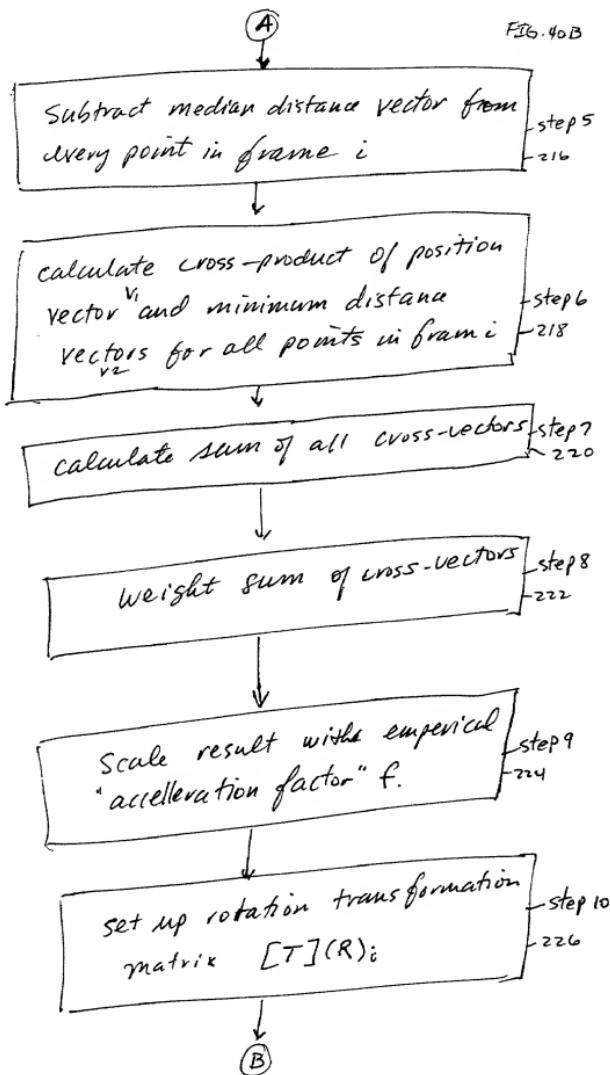
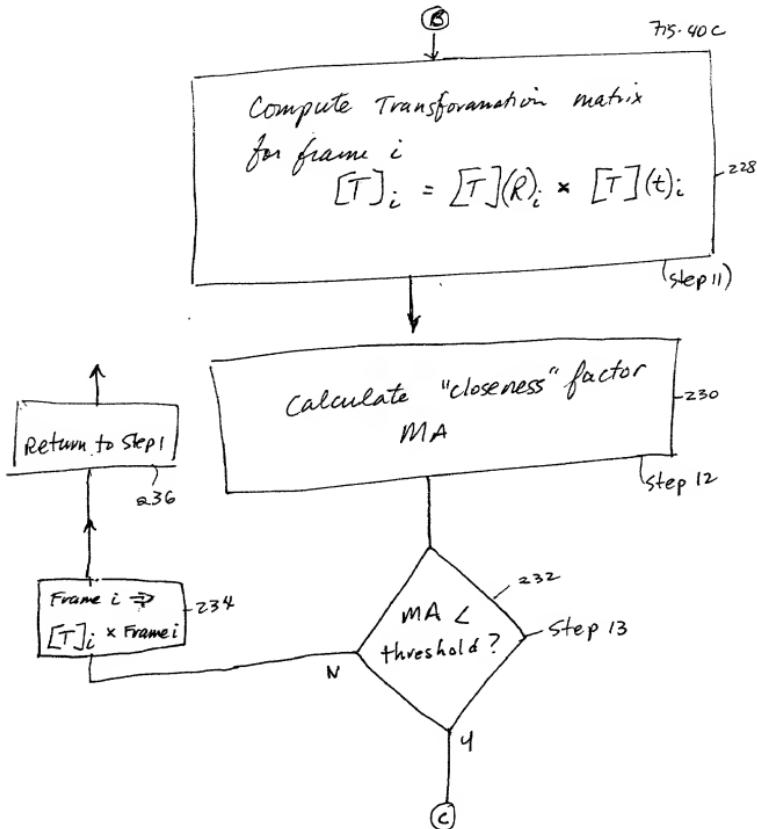


FIG. 40B





Frame to
frame
registration

Fig. 40 D

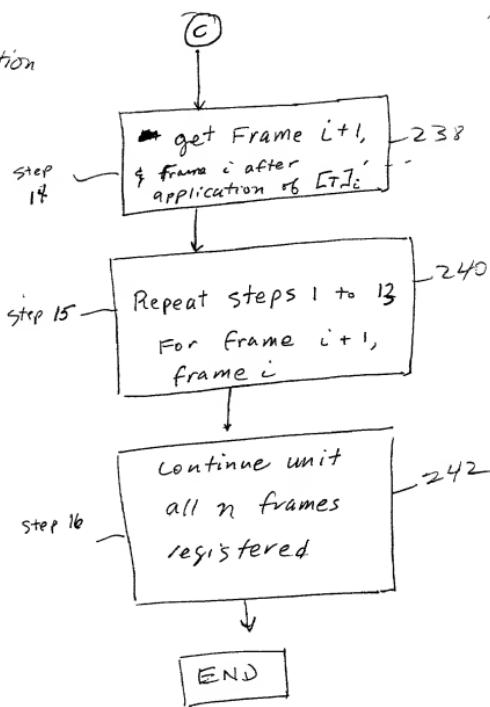


Fig. 41

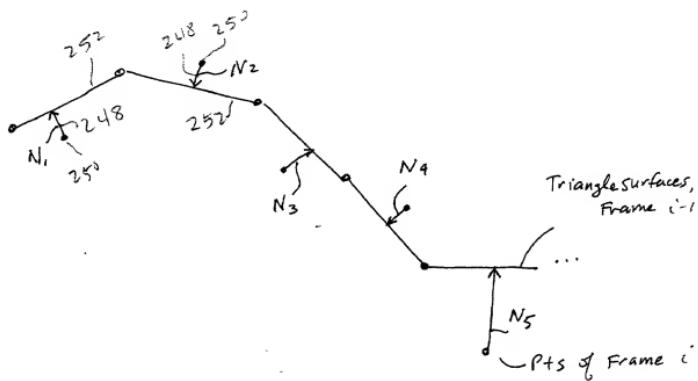


Fig. 42

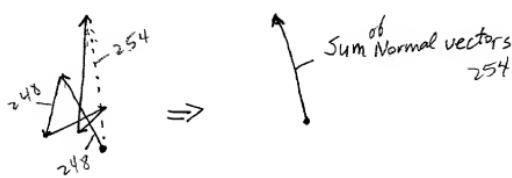


Fig. 43

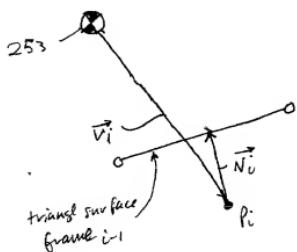
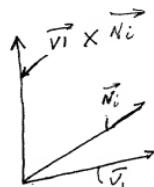
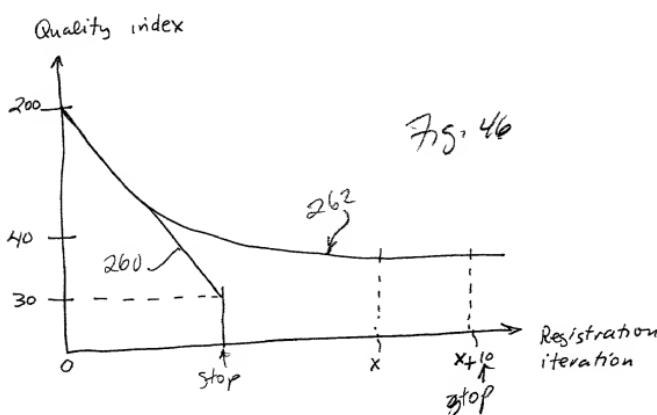
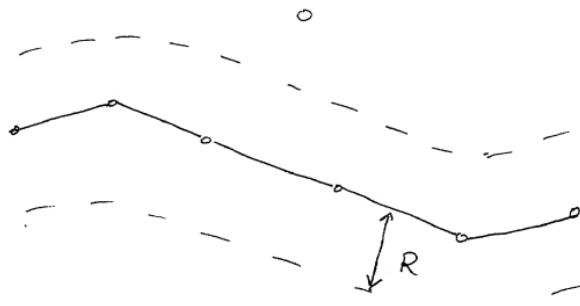
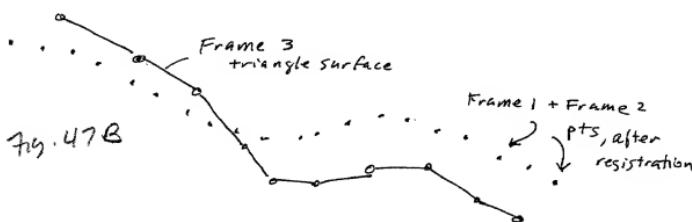
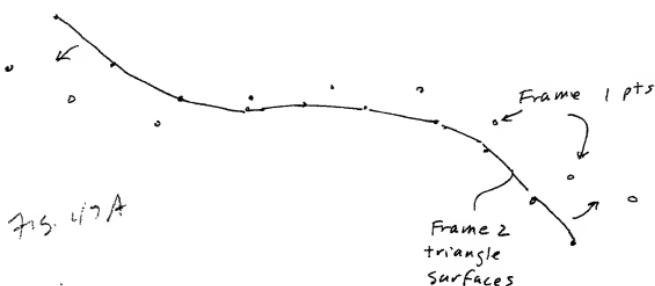


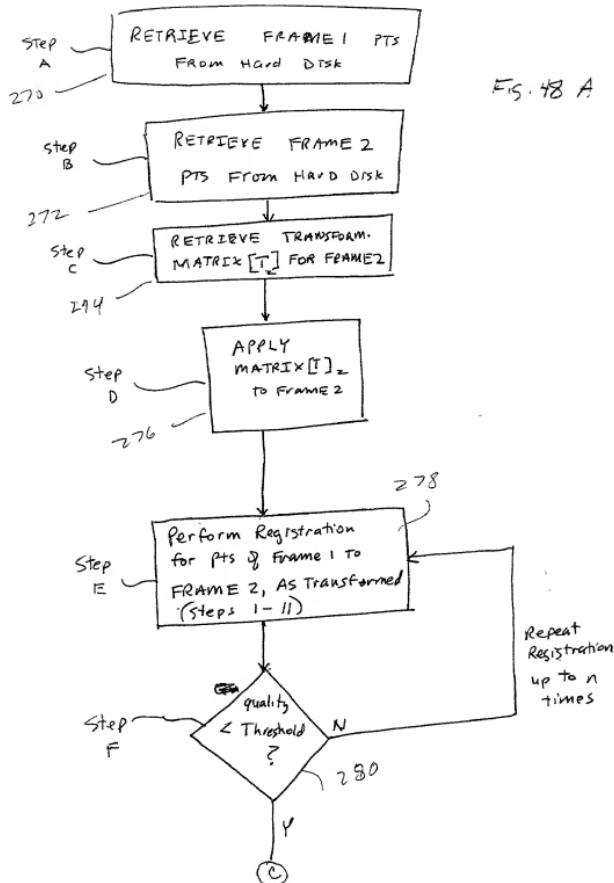
Fig. 44



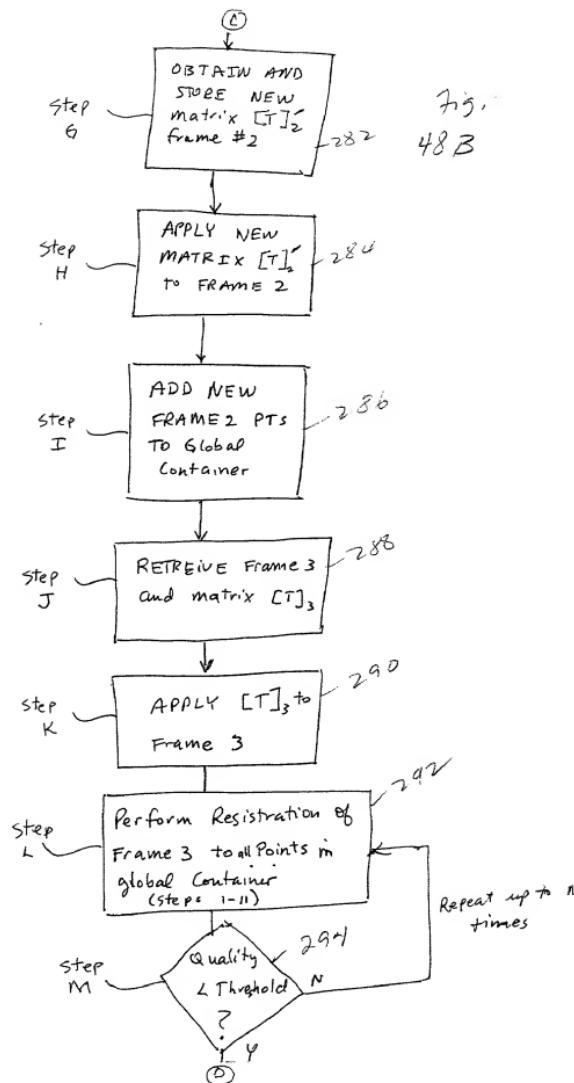


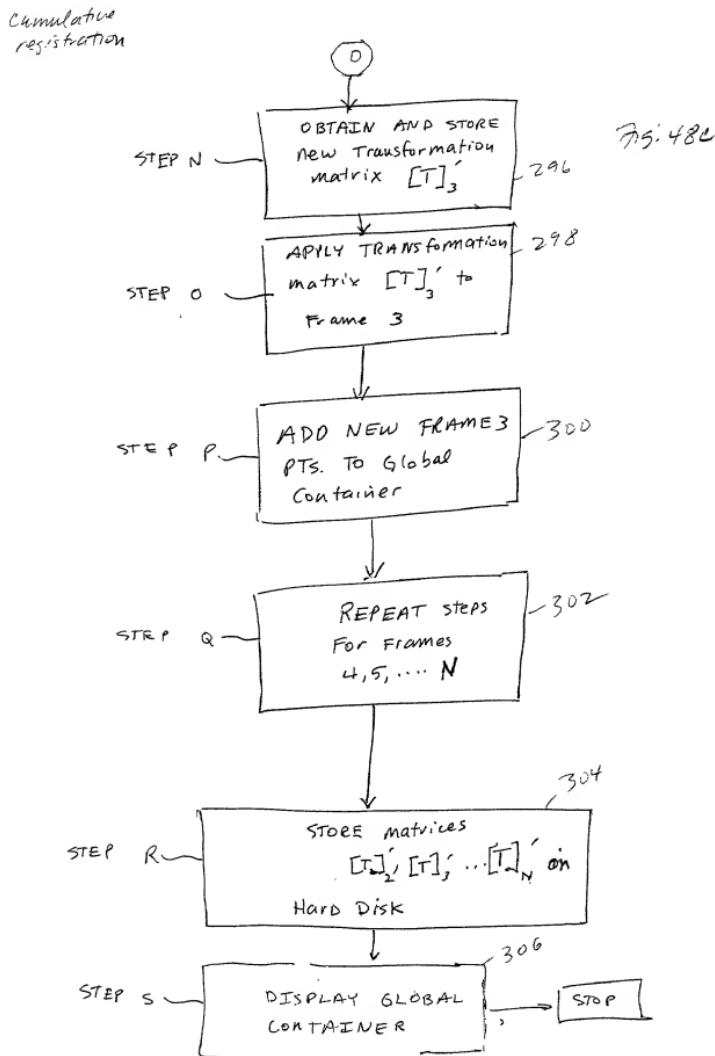


*Cumulative
Registration*



Cumulative registration





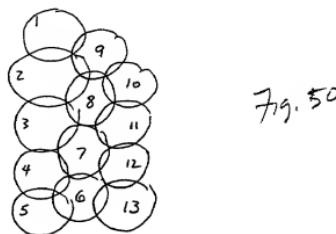
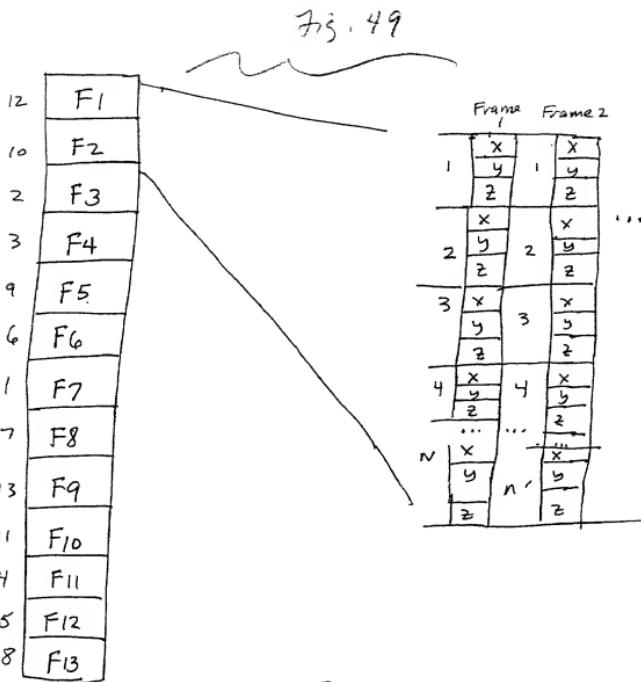


Fig. 51

F_1	
F_2	14
F_3	10
F_4	
F_5	16
F_6	4
F_7	11
F_8	7
F_9	17
F_{10}	16
F_{11}	11
F_{12}	12
F_{13}	
...	

Fig. 52

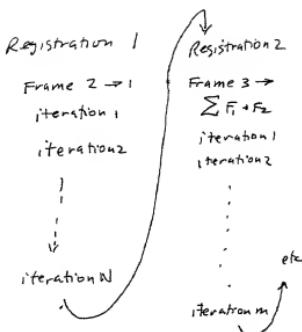


Fig. 53

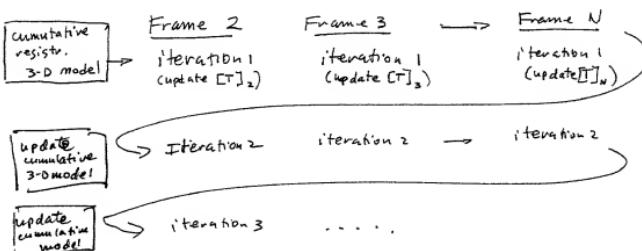
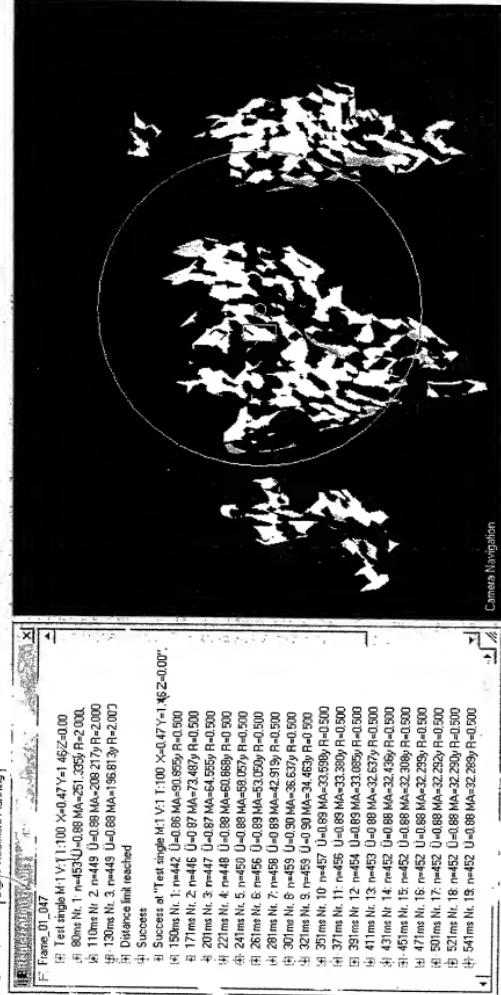


FIG. 54

<input checked="" type="checkbox"/> Single	Registration (raw + fine)	Registration (fine)
<input checked="" type="checkbox"/> Cumulative	Distance limit (SYX)	Distance limit (SYX)
X	Y	Z
0.00	0.00	0.00
3.00	0.00	0.00
-3.00	0.00	0.00
0.00	3.00	0.00
0.00	-3.00	0.00
<input checked="" type="checkbox"/> Merging	Radius (SYX)	Radius (SYX)
	Develop size	Develop size
	Minimum quota of active points (0.1)	Minimum quota of active points (0.200)
	Maximum edge size (larger triangles are treated as gaps)	Maximum edge size (larger triangles are treated as gaps)
	Convergence factor	Convergence factor
	Number of points (0)	Number of points (0)
	Acceleration factor	Acceleration factor
	Point factor (Proportion of point distance and element size (s=0))	Point factor (Proportion of point distance and element size (s=0))
general	Cell size	Cell size
	Radius of SYX surfaces (for animation (0 = off))	Radius of SYX surfaces (for animation (0 = off))
	Count of SYX surfaces (for animation (0 = off))	Count of SYX surfaces (for animation (0 = off))
	Radius of sphere inside which is to replace state for clearing gaps	Radius of sphere inside which is to replace state for clearing gaps
	Minimal triangle plane state for clearing gaps	Minimal triangle plane state for clearing gaps
	Minimal edge length (or 1500 mm closing gaps)	Minimal edge length (or 1500 mm closing gaps)
	Maximal edge length (or 1500 mm closing gaps)	Maximal edge length (or 1500 mm closing gaps)
	Number of points to register	Number of points to register
	Acceleration factor	Acceleration factor
	Convergence factor	Convergence factor
	Number of segments cumulative	Number of segments cumulative
	Minimal distance from point of base quantity	Minimal distance from point of base quantity
	Maximal distance from edge of base quantity	Maximal distance from edge of base quantity



Fig. 55



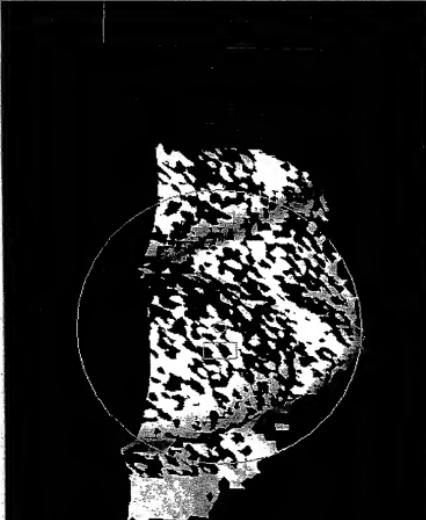
History	First	Grid Filter	Drug Drop Mode	Lenticular Label
Tee				
Frame_01_043	*	18	17	15
Frame_01_044	48	47	46	45
Frame_01_045		44	43	42
Frame_01_046		41	31	32
Frame_01_047	2			
Frame_01_048				
Frame_01_049				

File Edit View Tools Windows Help



Digital Impression | Digital Treatment Planning

- 901ms Ni_24 n=381 U=0.96 Ma=51 0333 R=0.000
- 921ms Ni_25 n=380 U=0.96 Ma=45 219 R=0.000
- 941ms Ni_26 n=378 U=0.95 Ma=39 263 R=0.000
- 971ms Ni_27 n=379 U=0.95 Ma=38 129 R=0.000
- 991ms Ni_28 n=377 U=0.95 Ma=38 289 R=0.000
- 1011ms Ni_29 n=377 U=0.98 Ma=37 880 R=0.000
- 1031ms Ni_30 n=377 U=0.95 Ma=36 351 R=0.000
- 1051ms Ni_31 n=377 U=0.95 Ma=35 405 R=0.000
- 1071ms Ni_32 n=375 U=0.95 Ma=34 031 R=0.000
- 1092ms Ni_33 n=373 U=0.95 Ma=33 812 R=0.000
- 1112ms Ni_34 n=378 U=0.95 Ma=33 507 R=0.000
- 1122ms Ni_35 n=378 U=0.95 Ma=33 411 R=0.000
- 1152ms Ni_36 n=378 U=0.95 Ma=33 190 R=0.000
- 1182ms Ni_37 n=378 U=0.95 Ma=32 670 R=0.000
- 1212ms Ni_38 n=378 U=0.95 Ma=32 680 R=0.000
- 1222ms Ni_39 n=378 U=0.95 Ma=32 480 R=0.000
- 1222ms Ni_40 n=378 U=0.95 Ma=32 448 R=0.000
- 1272ms Ni_41 n=378 U=0.95 Ma=32 363 R=0.000
- 1302ms Ni_42 n=378 U=0.95 Ma=32 250 R=0.000
- 1322ms Ni_43 n=378 U=0.95 Ma=32 198 R=0.000
- 1322ms Ni_44 n=373 U=0.95 Ma=38 526 R=0.000
- 1322ms Ni_45 n=376 U=0.95 Ma=27 880 R=0.016
- Final Distance limit reached



History: Flat Grid Filter: No Filter

Camera Navigation

Tree	Drag & Drop Mode	Landmark Label	Date
<input type="checkbox"/> Digital Impression Scene Graph	<input type="checkbox"/>		
<input type="checkbox"/> Segment_03	<input type="checkbox"/>		01/18/01 14:08:47
<input type="checkbox"/> Segment_05	<input type="checkbox"/>		01/18/01 14:08:47
<input type="checkbox"/> Segment_06	<input type="checkbox"/>		01/18/01 14:08:47
<input type="checkbox"/> Segment_07	<input type="checkbox"/>		01/18/01 14:08:47
<input checked="" type="checkbox"/> Upper Left (Segment_01) 1168 Frames	<input checked="" type="checkbox"/>		01/18/01 13:14
<input type="checkbox"/> Frame_0_001	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Frame_0_002	<input type="checkbox"/>		
<input type="checkbox"/> Frame_0_003	<input type="checkbox"/>		
<input type="checkbox"/> Frame_0_004	<input type="checkbox"/>		
<input type="checkbox"/> Frame_0_005	<input type="checkbox"/>		
<input type="checkbox"/> Frame_0_006	<input type="checkbox"/>		
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<input type="checkbox"/> Frame_0_020	<input type="checkbox"/>		
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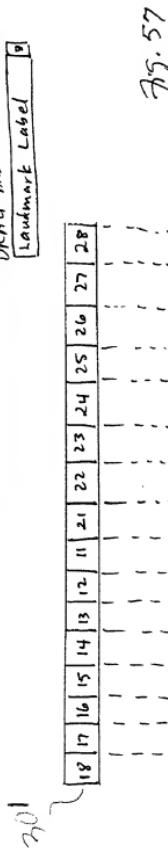


Fig. 57
306
306

Fig. 58 A



Fig. 58 B

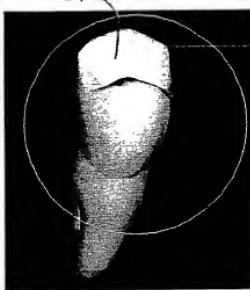


Fig.
58 C

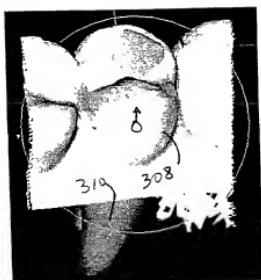


Fig. 58 D

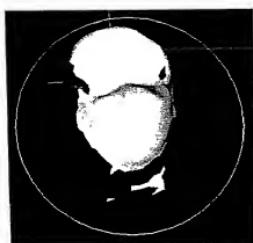
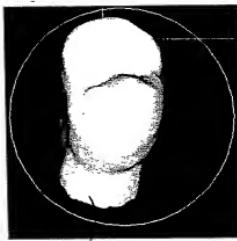


Fig. 58 E



312 Fig. 58 F

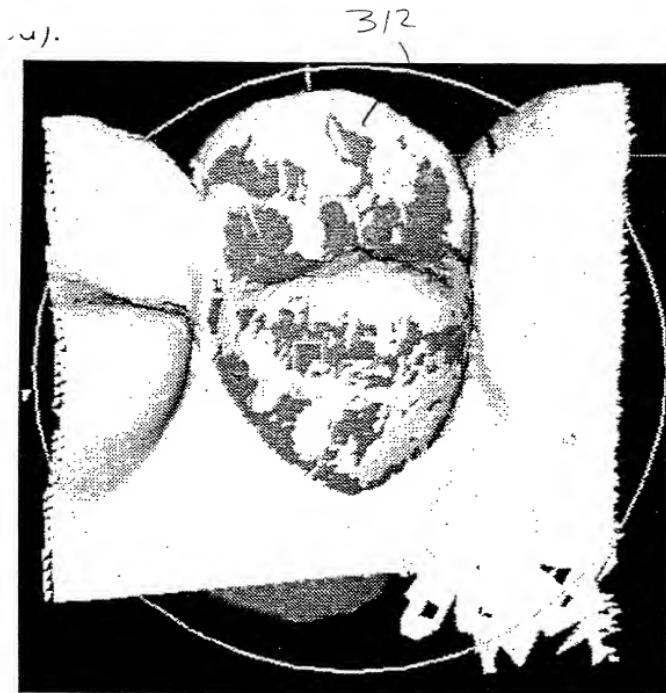
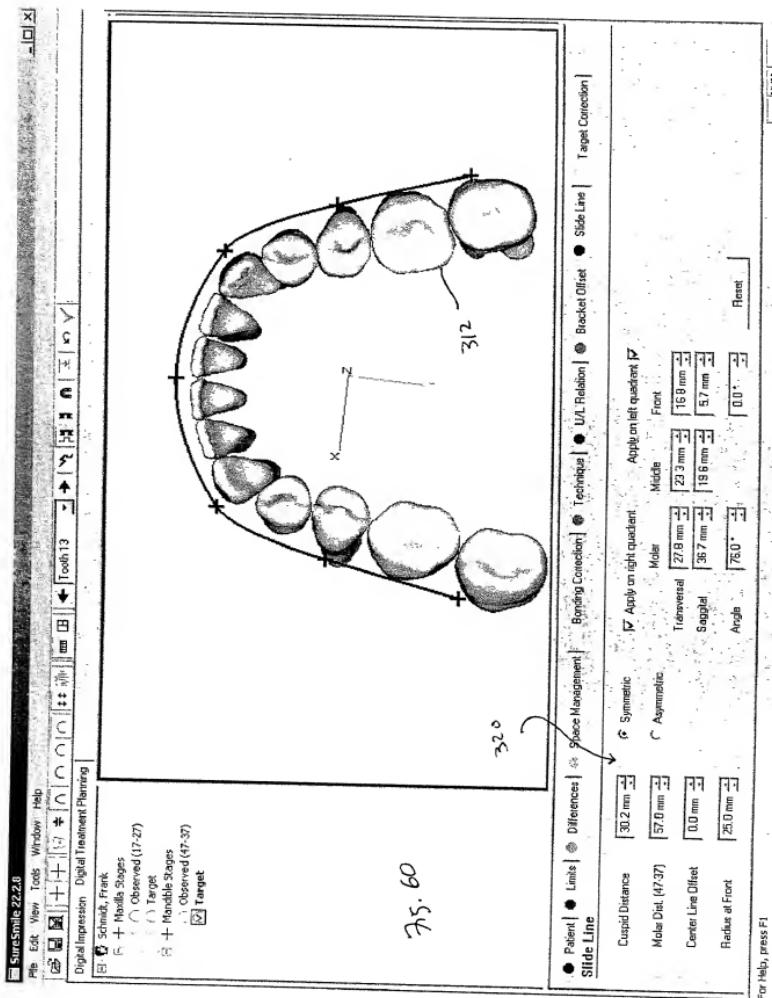
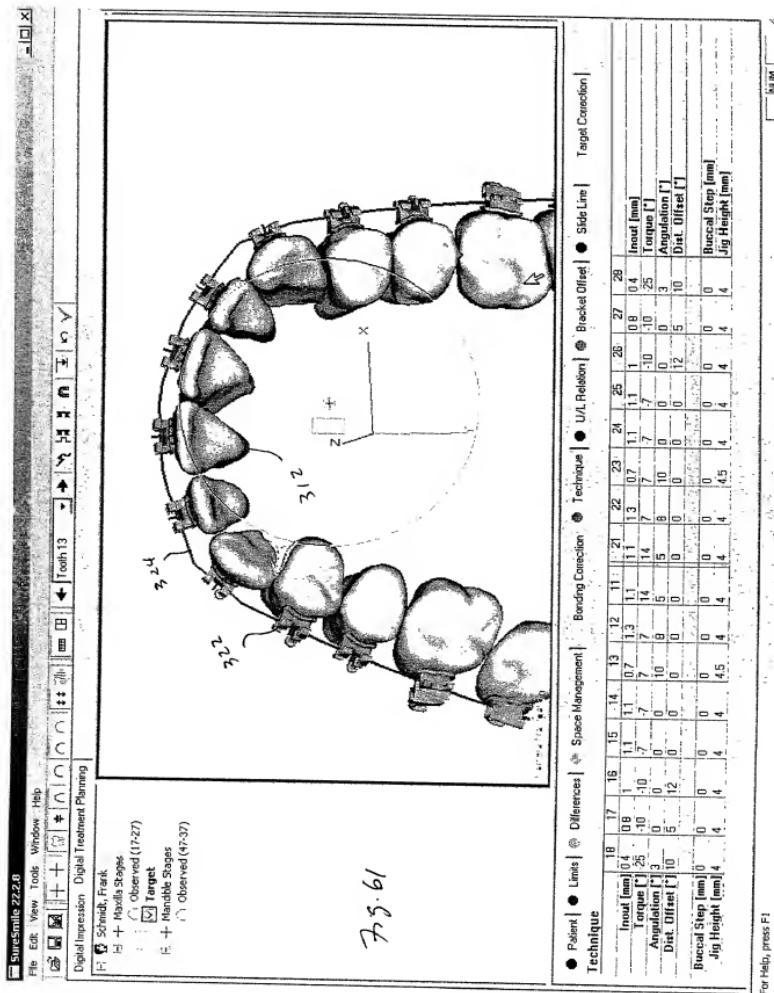
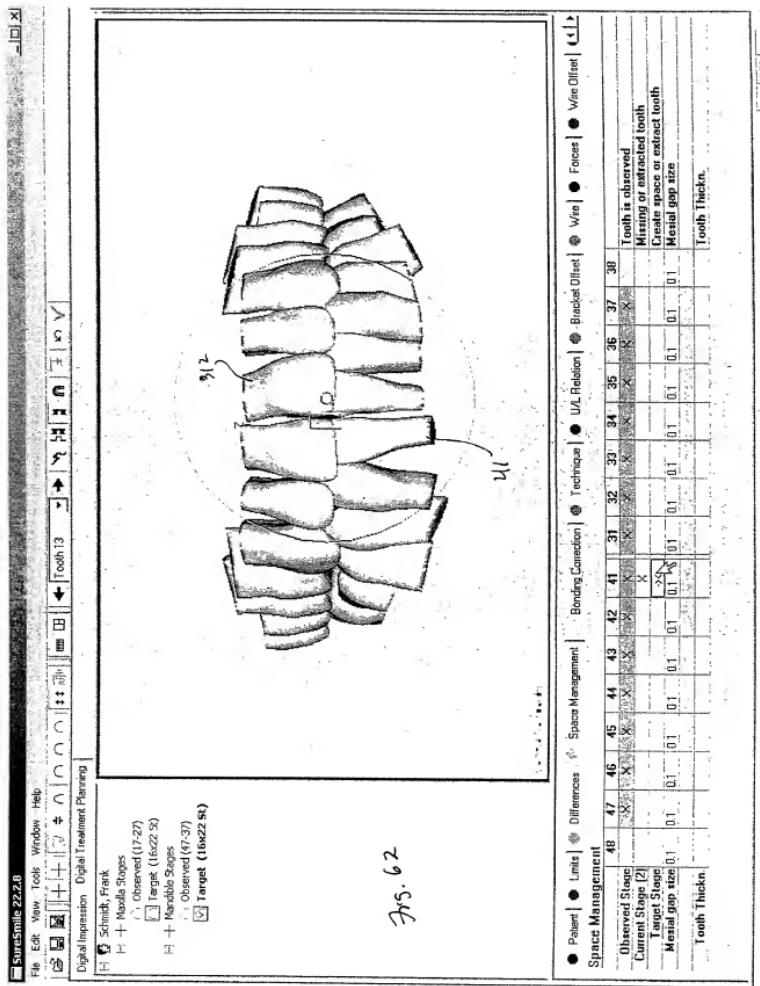
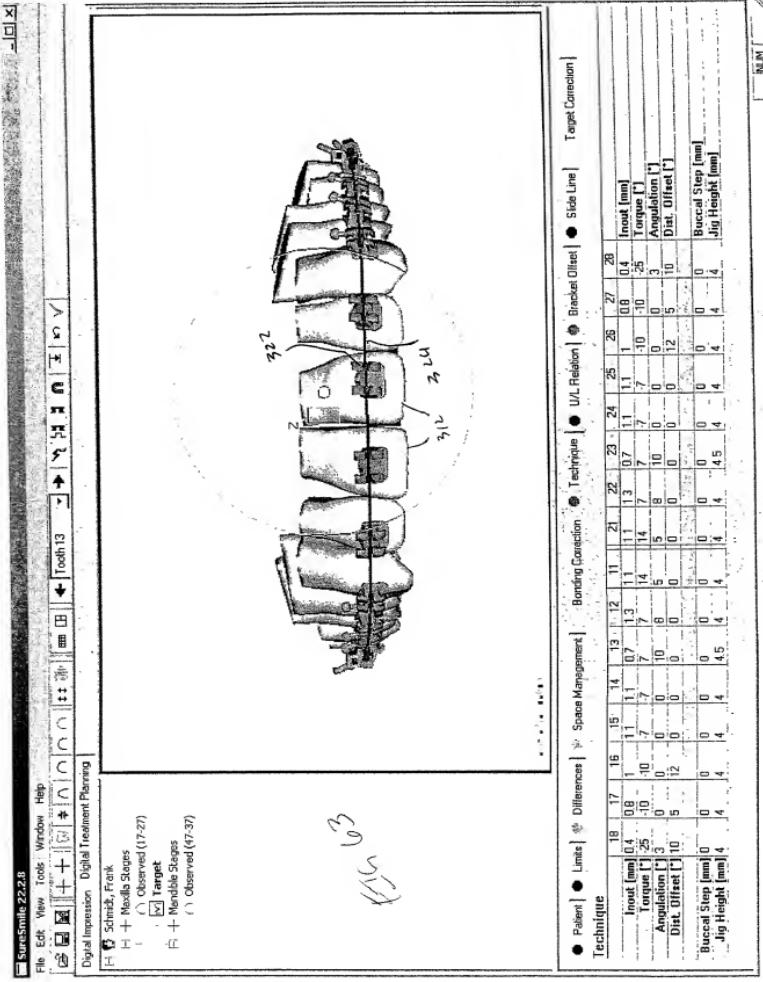


Fig. 59









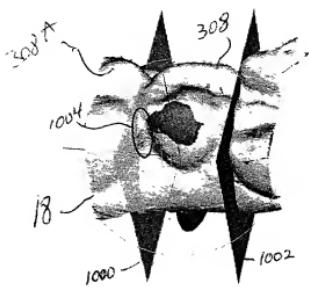


Fig. 64A

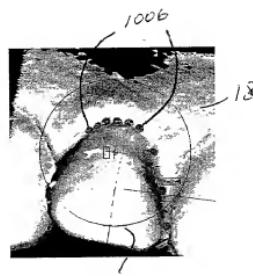


Fig. 64B 308

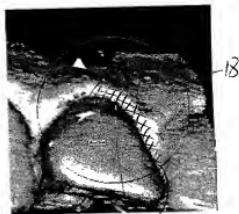


Fig. 64C 1008



Fig. 64D 1008

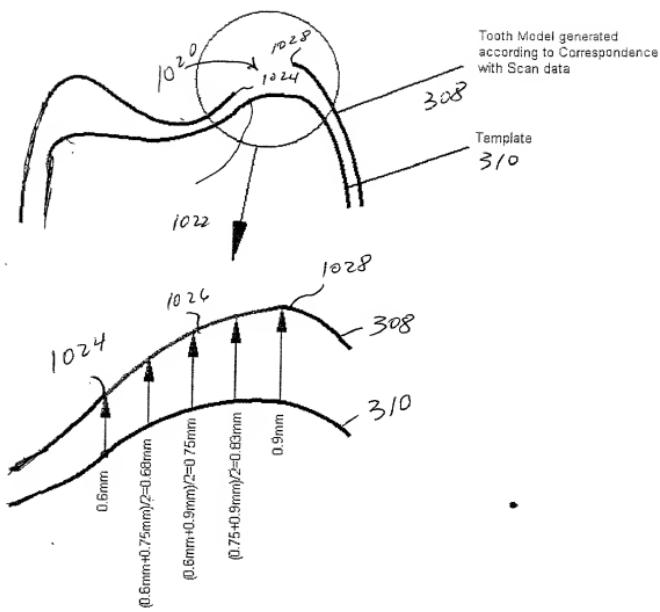


Fig. 65